PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference									
2004.831 WO	JRTHER ACTION	See Form PCT/IPEA/416							
International application No. Internation PCT/EP2005/050833 28.02.2	nal filing date <i>(day/month/year)</i> 005	Priority date (day/month/year) 05.03.2004							
International Patent Classification (IPC) or national class	ification and IPC								
461K31/4245 C07D413/04 C07D413/14 A61P29/00 C07D403/04 A61K31/454 A61K31/4196 C07D417/04									
C07D498/06, A61K31/5383, C07D417/14, A61K31/427, A61K31/422, C07D513/04, A61K31/425, A61K31/42, C07D409/04, A61K31/404									
Applicant									
AKZO NOBEL N.V. et al.									
Authority under Article 35 and transmitted to	the applicant according to A	d by this International Preliminary Examining rticle 36.							
2. This REPORT consists of a total of 6 sheets	s, including this cover sheet.								
3. This report is also accompanied by ANNEXE									
a. sent to the applicant and to the Intern									
sheets of the description, claims and/or sheets containing rectifica Administrative Instructions).	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
beyond the disclosure in the inter	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the								
Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and	number of electronic carrier(s)) , containing a							
sequence listing and/or tables related	thereto, in computer readab	le form only, as indicated in the Supplemental							
Box Relating to Sequence Listing (se	e Section 802 of the Adminis	strative Instructions).							
4. This report contains indications relating to th	e following items:								
	e lonowing items.								
☐ Box No. I Basis of the opinion									
☐ Box No. II Priority									
l .	ion with regard to novelty, in	ventive step and industrial applicability							
Box No. IV Lack of unity of invention									
☐ Box No. V Reasoned statement unde applicability; citations and	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
☐ Box No. VI Certain documents cited									
☐ Box No. VII Certain defects in the inter									
☐ Box No. VIII Certain observations on th	e international application								
Date of submission of the demand	Date of complet	ion of this report							
08.08.2005	31.01.2006								
Name and mailing address of the international	Authorized Office	per							
preliminary examining authority:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	gentiches Printed. E							
European Patent Office D-80298 Munich	Seymour, L								
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Fax: +49 89 2399 - 4465	Telephone No.	+49 89 2399-							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/050833

10/590674

	Box No. I	Basis of the repor	t	IAPS Rec'd PCT/PTO 26 AUG 20	nns
1.	With regard	d to the language , th s otherwise indicated	is report is based on the l under this item.	e international application in the language in which	
	☐ This re which	eport is based on tran	nslations from the original translation furnished for	nal language into the following language , r the purposes of:	
	☐ pub	olication of the interna	der Rules 12.3 and 23.1 ational application (unde examination (under Ru	er Rule 12.4)	
2.	have been	furnished to the rece	the international applic iving Office in response re not annexed to this re	cation, this report is based on (replacement sheets we to an invitation under Article 14 are referred to in to eport):	whicl his
	Description	, Pages			
	1-56		as originally filed		
	Claims, Numbers				
	1-10		as originally filed		
	□ a sequ	ence listing and/or ar	ny related table(s) - see	Supplemental Box Relating to Sequence Listing	
3.			ulted in the cancellation	of:	
		description, pages claims, Nos.			
	☐ the	drawings, sheets/figs sequence listing (sp		· .	
			equence listing <i>(specify)</i>	y) :	
4.	had not bee	port has been establen made, since they tal Box (Rule 70.2(c)	nave been considered t	e amendments annexed to this report and listed bel to go beyond the disclosure as filed, as indicated in	low the
	☐ the	description, pages claims, Nos. drawings, sheets/figs	;		
		sequence listing (spetable(s) related to se	ecify): equence listing <i>(specify)</i>	') :	
	* If ite	em 4 applies, so	ome or all of thes	se sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/050833

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1.	The	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ovious), or to be industrially applicable have not been examined in respect of:				
		l the entire international application,				
	Ø	claims Nos. 10 with respect to industrail applicability				
		because:				
	☒	the said international application, or the said claims Nos. as above relate to the following subject matter which does not require an international preliminary examination (specify):				
		see separate sheet				
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
		no international search report has been established for the said claims Nos.				
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
		the written form		has not been furnished		
				does not comply with the standard		
		the computer readable form		has not been furnished		
				does not comply with the standard		
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
		See separate sheet for further details				

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-10

1. Statement

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Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims 1-10

No: Claims

Industrial applicability (IA) Yes: Claims 1-9

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item III

Claim 10 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(I) PCT).

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Re Item V

1. Reference is made to the following documents:

D1: WO-A-02 36590

D2: WO-A-04 00832

2. The subject-matter of the present claims is new (Article 33(2) PCT):

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The cannabinoid agonists of D1 differ from the present compounds in the substituent at position 1 of the indole ring (cf. definition of present R_1 with definition of Het and Z in R_5 of D1) and in the nature of substitution at the oxadiazole ring (see D1, definition of R_1).

The cannabinoid agonists of D2 differ from the present compounds in the definition of the substituent at position 3 of the indole ring.

3. Inventive step (Article 33(3) PCT)

The problem underlying the present application lies in the provision of further cannabinoid agonists (see p. 2, lines 12 - 13).

The cannabinoid agonists of D1 and D2 differ substantially in structure from the present compounds (see point 2). The present activity has been substantiated for a representative number of compounds (see Table 1). An inventive step can therefore be acknowledged.

4. Industrial applicability (Article 33(4) PCT)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2005/050833

For the assessment of the present claim 10 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.